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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/902,812	07/10/2001	Andres Hejlsberg	MS1-866US	6426
22801 75	90 07/30/2004		EXAMINER	
LEE & HAYES PLLC			CAO, DIEM K	
421 W RIVERSIDE AVENUE SUITE 500 SPOKANE, WA 99201			ART UNIT	PAPER NUMBER
SPURANE, W.	A 99201		2126	
	,		DATE MAILED: 07/30/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.



		Application No.	Applicant(s)	X			
		09/902,812	HEJLSBERG E	ΓAL.			
Office Action Summary		Examiner	Art Unit				
		Diem K Cao	2126				
Period fo	The MAILING DATE of this commun or Reply	ication appears on the cove	r sheet with the correspondence a	address			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN' nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm e period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st ure to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no event, how nunication. 10) days, a reply within the statutory mi atutory period will apply and will expire will. by statute, cause the application is	ever, may a reply be timely filed nimum of thirty (30) days will be considered tin SIX (6) MONTHS from the mailing date of this o become ABANDONED (35 U.S.C. § 133).	nely. s communication.			
Status							
1)🖂	Responsive to communication(s) file	ed on <u>10 July 2001</u> .					
, —		2b)⊠ This action is non-fir					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the pract	ice under Ex parte Quayle,	1935 C.D. 11, 453 O.G. 213.	_			
Disposit	ion of Claims						
4)⊠	Claim(s) 1-40 is/are pending in the	application.					
1/63	4a) Of the above claim(s) is/a		ration.				
5)[]	Claim(s) is/are allowed.						
,	Claim(s) <u>1-40</u> is/are rejected.						
_	Claim(s) is/are objected to.						
•	Claim(s) are subject to restri	ction and/or election require	ement.				
Applicat	tion Papers						
	The specification is objected to by the	ne Examiner					
	The drawing(s) filed on is/are		piected to by the Examiner.				
10/	Applicant may not request that any obje).			
	Replacement drawing sheet(s) includin						
11)□	The oath or declaration is objected t						
		·					
_	under 35 U.S.C. § 119	C. C. St. Carlon and A. C. Carlon	5 11 C C S 440(a) (d) ar (f)				
	Acknowledgment is made of a claim	n for foreign priority under 3	5 U.S.C. § 119(a)-(d) or (i).				
a,) All b) Some * c) None of:	. da aumanta haya baan roc	oived				
	1. Certified copies of the priority		eived in Application No				
			nave been received in this Nation	nal Stane			
	3. Copies of the certified copies application from the Internati			idi Otage			
*	See the attached detailed Office acti						
	See the attached detailed Office acti	of for a list of the continua t	,				
N#							
Attachme	nt(s) ice of References Cited (PTO-892)	4) [Interview Summary (PTO-413)				
2) Not	ice of Draftsperson's Patent Drawing Review (Paper No(s)/Mail Date	DT0 450)			
	rmation Disclosure Statement(s) (PTO-1449 oper No(s)/Mail Date 20010701. 6	or PTO/SB/08) 5) L 2. 0, 8/ / 6) [Notice of Informal Patent Application (Other:	PTO-152)			
U.S. Patent and	Trademark Office	3 / 725/2003		il D-1- 00010701			
PTOL-326 (Rev. 1-04)	Office Action Summary	Part of Paper No./Ma	iii Date 20010701			

DETAILED ACTION

1. Claims 1-40 are presented for examination.

Specification

2. The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code on page 9, line 2. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 3-4, 16, and 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shannon (Java 2 Platform Enterprise Edition Specification, v1.2) in view of Sun (Java 2 Platform, Standard Edition, v 1.2.2 API Specification).
- 5. As to claim 1, Shannon teaches an application configured to handle requests submitted by remote devices over a network (Servlets and JSP pages ... requests from web clients; page 2-1, and Enterprise JavaBeans ... business logic for a J2EE applications; page 2-2), an application program interface to present functions used by the application to access network and computing resources of the distributed computing system (This specification defines ... to application

components; page 2-2 and The J2EE client core is typically built on Java 2 Platform, Standard Edition technology; page 2-3 and The J2EE provides a number of APIs ... starting with the core Java APIs and including several Java Standard Extensions; page 6-1), the application program interface comprising various types (JavaIDL API, JDBC Core API, EJB, JSP, etc. pages 6-1 to 6-2).

- 6. However, Shannon does not explicitly teach the application program interface comprising various types related to constructing user interfaces. Shannon teaches the J2EE specification requires to providing a Java Compatible runtime environment (page 6-1), application clients are typically GUI programs (page 2-1), and the J2EE client core is typically built on Java 2 Platform, Standard Edition technology (page 2-3). Sun teaches the Java 2 Platform Standard Edition provides the API comprising various types related to constructing user interfaces (java.applet, java.awt, java.awt.datatransfer, java.security, java.text, java.util, etc; pages 1-3).
- 7. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Shannon and Sun because Shannon' system is based on J2SE and Sun teaches J2SE is used to construct the client side which includes user interface.
- 8. As to claim 3, Shannon teaches the distributed computing system comprises client devices (Application clients ... desk top computer; page 2-1) and server devices that handle requests from the client devices (J2EE server; page 2-2), the remote devices comprising at least one client device (web clients; page 2-1).

- 9. **As to claim 4**, the distributed computing system comprises client devices (Application clients ... desk top computer; page 2-1) and server devices that handle requests from the client devices (J2EE server; page 2-2), the remote devices comprising at least one server device that is configured as a Web server (Servlets and JSP pages ... web clients; page 2-1 and Component that are deployed ... and Enterprise JavaBeans; page 2-2).
- 10. As to claim 16, Shannon teaches one or more applications configured to be executed on one or more computing devices (Application clients ... desk top computer; page 2-1 and a high end J2EE product ... a collection of machines; page 2-8), the applications handling requests submitted from remote computing devices (Servlets and JSP pages ... requests from web clients; page 2-1, and Enterprise JavaBeans ... business logic for a J2EE applications; page 2-2), a networking platform to support the one or more applications (HTTP, Java Transaction API, RMI-IIOP, JavaIDL, JDBC, Java Message Service, Java naming and Directory Interface, JavaMail; pages 2-5 thru 2-6), and an application programming interface to interface the one or more applications with the networking platform (Java Message Service, Java naming and Directory Interface, JavaMail; pages 2-5 thru 2-6), the application program interface comprising various types (JavaIDL API, JDBC Core API, EJB, JSP, etc. pages 6-1 to 6-2).
- However, Shannon does not explicitly teach the application program interface comprising various types related to constructing user interfaces. Shannon teaches the J2EE specification requires to providing a Java Compatible runtime environment (page 6-1), application clients are

typically GUI programs (page 2-1), and the J2EE client core is typically built on Java 2 Platform, Standard Edition technology (page 2-3). Sun teaches the Java 2 Platform Standard Edition provides the API comprising various types related to constructing user interfaces (java.applet, java.awt, java.awt.datatransfer, java.security, java.text, java.util, etc; pages 1-3).

- 12. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Shannon and Sun because Shannon' system is based on J2SE and Sun teaches J2SE is used to construct the client side which includes user interface.
- 13. **As to claim 28**, Shannon teaches a computer system including one or more microprocessors and one or more software programs (Application clients ... desk top computer; page 2-1 and a high end J2EE product ... a collection of machines; page 2-8), the one or more software programs utilizing an application program interface to request services from an operating system (JDBC, database; pages 2-3 thru 2-4), the application program interface including separate commands to request services (JavaIDL API, JDBC Core API, EJB, JSP, etc. pages 6-1 to 6-2).
- 14. However, Shannon does not explicitly teach the application program interface including separate commands to request services comprising services related to constructing user interfaces. Shannon teaches the J2EE specification requires to providing a Java Compatible runtime environment (page 6-1), application clients are typically GUI programs (page 2-1), and the J2EE client core is typically built on Java 2 Platform, Standard Edition technology (page 2-

3). Sun teaches the Java 2 Platform Standard Edition provides the API comprising various types related to constructing user interfaces (java.applet, java.awt, java.awt.datatransfer, java.security, java.text, java.util, etc; pages 1-3).

- 15. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Shannon and Sun because Shannon' system is based on J2SE and Sun teaches J2SE is used to construct the client side which includes user interface.
- 16. As to claim 29, see rejection of claim 1 above.
- 17. **As to claim 30**, Shannon teaches receiving a request from a remote computing device, the request containing a call to the set of functions (Servlets and JSP pages ... requests from web clients; page 2-1).
- 18. Claims 5-15 and 31-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sun (Java 2 Platform, Standard Edition, v 1.2.2 API Specification) in view of Flanagan (Java in a Nutshell).
- 19. **As to claim 5**, Sun teaches an application program interface embodied on one or more computer readable media (API specification of the Java 2 Platform, Standard Edition; page 1) comprising multiple types related to constructing user interfaces (java.applet, java.awt ... for

creating user interface, java.awt.datatransfer, java.security, java.text, java.util, etc; pages 1-3), the types comprising classes (classes; page 1), interfaces (interfaces; pages 1).

- 20. However, Sun does not explicitly teach the types comprising delegates, structures and enumerations. Flanagan teaches the type comprising delegates (MenuComponent, MenuBar, MenuItem, Menu; page 239, Fig. 19-2), and enumerations (java.util.Enumeration; page 342). Although Sun does not teach structures, it would have been obvious the structures are supported because Sun supports abstract class which function as structure.
- 21. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sun and Flanagan because Flanagan clearly show the description of the API supported by Sun.
- 22. **As to claim 6**, Flanagan teaches the classes comprise a form class that represents a window or a dialog box that makes up an application's user interface (java.awt.Dialog, This class encapsulates a dialog box window ... with setLayout(); page 247).
- As to claim 7, Flanagan teaches the form class has multiple members comprising one or more of public static properties, public static methods, public instance constructors, public instance methods, public instance properties, public instance events, protected instance properties, and protected instance methods (public Dialog (Frame parent, Boolean modal), public String getTitle(); page 247).

- As to claim 8, Flanagan teaches the interfaces comprise a button control interface that allows a control to act like a button on a form (java.awt.Button encapsulates a GUI pushbutton that displays a specified textual label; page 240).
- As to claim 9, Flanagan teaches the interfaces comprise a container control interface that provides functionality for a control to act as a parent for other controls (java.awt.Container implements a component that can contain other components; page 246).
- 26. **As to claim 10**, Flanagan teaches the interfaces comprise an editing notification interface (java.awt.TextArea, java.awt.TextComponent, java.awt.TextField; pages 267-268).
- 27. **As to claim 11**, Sun teaches the interfaces comprise a data object interface that provides a format independent mechanism for transferring data (java.awt.datatransfer; page 1).
- 28. **As to claim 12**, Flanagan teaches the interfaces comprise a feature support interface that specifies a standard interface for retrieving feature information from a current system (System.getProperties(), Font.getFont(), Color.getColor(); page 193).
- 29. **As to claim 13**, Flanagan teaches the interfaces comprise a message filter interface (applet security, java.lang.SecurityManager class defines a number of methods that the ystem calls to check whether a certain operation is permitted in the current environment; page 199).

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30. **As to claim 14**, Flanagan teaches the interfaces comprise a handle-exposing interface to expose handles (java.awt.Container, getComponents() returns an array of the components contained in a container; page 246).

- 31. **As to claim 15**, see rejections of claims 8-14 above.
- 32. **As to claim 31**, a method to creating a namespace with functions that enable drawing and construction of user interfaces, the name space defining classes, interfaces, delegates, structures and enumerations.
- 33. As to claim 32-40, see rejection of claims 6-14 above.
- 34. Claims 2, and 17-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shannon (Java 2 Platform Enterprise Edition Specification, v1.2) in view of Sun (Java 2 Platform, Standard Edition, v1.2.2 API Specification) further in view of Flanagan (Java in a Nutshell).
- 35. As to claim 2, Sun teaches the various types comprising classes (classes; page 1), interfaces (interfaces; pages 1).

However, Sun does not explicitly teach the various types comprising delegates, structures and enumerations. Flanagan teaches the type comprising delegates (MenuComponent, MenuBar, MenuItem, Menu; page 239, Fig. 19-2), and enumerations (java.util.Enumeration; page 342).

Although Sun does not teach structures, it would have been obvious the structures are supported because Sun supports abstract class which function as structure.

- 37. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Sun and Flanagan because Flanagan clearly show the description of the API supported by Sun.
- 38. As to claim 17, see rejection of claim 2 above.
- 39. **As to claims 18-27**, see rejections of claims 6-15 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diem K Cao whose telephone number is (703) 305-5220. The examiner can normally be reached on Monday - Thursday, 9:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (703) 305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Diem Cao

MENG-AL T. AN SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100